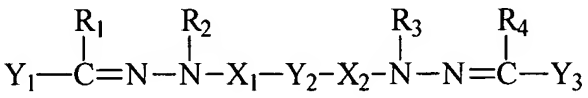
ORGANOPHOTORECEPTOR WITH CHARGE TRANSPORT MATERIAL HAVING THREE ARYLAMINO GROUPS

Abstract of the Disclosure

Improved organophotoreceptor comprises an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(a) a charge transport material having the formula



where R_1, R_2, R_3, and R_4 are, independently, H, an alkyl group, an alkaryl group, or an aryl group;

X_1 and X_2 are, independently, a linking group having the formula $-(CH_2)_m-$, branched or linear, where m is an integer between 1 and 20, inclusive, and one or more of the methylene groups is optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, a NR_5 group, a CHR_6 group, or a CR_7R_8 group where R_4, R_5, R_6, and R_7 are, independently, H, hydroxyl group, thiol group, an alkyl group, an alkaryl group, a heterocyclic group, or an aryl group; and

Y_1, Y_2, and Y_3 are, independently, an arylamine group; and

(b) a charge generating compound.

Corresponding electrophotographic apparatuses and imaging methods are described.